

**Coal Combustion Byproducts (CCBs)
Annual Generator Tonnage Report
Instructions for Calendar Year 2024**

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts (CCBs) that were managed in the State of Maryland during calendar year 2017. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. *Note that the form requires both volume and weight of the CCBs produced. If you know one of these parameters but not the others, for example, you have the tonnage produced but not the volume, you may calculate the other parameter; however, please provide the calculations and assumptions that you used in your estimate.* Questions can be directed to the Solid Waste Program at (410) 537-3315 or via email at ed.dexter@maryland.gov.

I. Background. This requirement that generators of CCBs submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

II. General Information and Applicability.

A. Definitions. CCBs are defined in COMAR 26.04.10.02B as:

“(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.

(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods.”

A generator of CCBs is defined in COMAR 26.04.10.02B as:

“(9) Generator.

(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.

(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence.”

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B. Applicability. If you or your company meets the definition of a generator of CCBs as defined above, you must provide the information as required below. For the purposes of this report, “you” shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year. **THIS INCLUDES CCBs THAT WERE NOT SEPARATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement.** Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

III. Required Information. The following information must be provided to the Department by March 1, 2018:

A. Contact information:

Facility Name: Heidelberg Materials US Cement LLC

Name of Permit Holder: Same

Facility Address: 675 Quaker Hill Road

Street

Facility Address: Union Bridge MD 21791

City

State

Zip

County: Carroll

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 410-386-1210 Facility Fax No.: 410-386-1296

Contact Name: Kurt Deery, REM

Contact Title: Environmental Engineer

Contact Address: Same

Street

Contact Address: Same

City

State

Zip

Contact Email: Kurt.Deery@Heidelbergmaterials.com

Contact Telephone No.: 410-386-1229 Contact Fax No.: same

For questions on how to complete this form, please contact the Solid Waste Program at 410-537-3315

B. A description of the process that generates the CCBs, including the type of coal or other raw material that generates the CCBs. If the space provided is insufficient, please attach additional pages:

Heidelberg Materials generates coal ash by burning coal to fire the cement kiln. All coal ash is incorporated into the clinker produced inside of the kiln. The coal ash during production of clinker is converted to calcium silicates.

C. The volume and weight of CCBs generated during calendar year 2024, including an identification of the different types of CCBs generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format. If converting from volume to weight or weight to volume, please provide your calculations and assumptions.

Table I: Volume and Weight of CCBs Generated for Calendar Year 2024: Please note that this table includes both the volume and weight of the types of CCBs your facility produces.

Volume and Weight of CCBs Generated for Calendar Year 2024			
Coal Ash consumed in mfg process From Heidelberg burning coal in cement kiln	Gypsum consumed in mfg process	Delivered Fly Ash Consumed by Heidelbergmaterials in mfg. process	Delivered Poned/Bottom Ash consumed by Lehigh in mfg process
Type of CCB	Type of CCB	Type of CCB	Type of CCB
2,626,400	249,167	37,189	378,756
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
59,049.0	168,188.0	22,592.0	357,924.0
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

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and (b) The different uses by type and volume of CCBs:

Beneficial use within the clinker and cement manufacturing process. See Attachments.

If the space provided is insufficient, please attach additional pages in a similar format.

G. A description of how you intend to dispose of or use CCBs in the next 5 years, identifying:

(a) The types and volume of CCBs intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of CCBs intended to be disposed of or used at each site:

NA

and (b) The different intended uses by type and volume of CCBs.

See attached

If the space provided is insufficient, please attach additional pages in a similar format.



Heidelberg Materials North America

Heidelberg Materials US Cement LLC/North

675 Quaker Hill Road

Union Bridge, MD 21791

Phone (410) 386-1210

Attachment 1

Year 2024 CCB Reporting

Table 1: Fly Ash Totals

Fly Ash Supplier	Supplier Location	Total Short Tons Delivered to Heidelberg Materials	Cubic Feet of Material*	Yards of Material
Raven Power	Baltimore, MD	6,324.00	281,067	10,410
RFI	Conemaugh	15,586.00	692,711	25,656
Talen	York Haven, PA	682.00	30,311	1,123
Total		22,592.00	1,004,089	37,188.48

*Note: Fly ash = 45 lbs/cu. Ft as measured by Lehigh Lab

Table 2: Poned Ash Totals

Bottom Ash Supplier	Supplier Location	Total Short Tons Delivered to Heidelberg Materials	Cubic Feet of Material*	Yards of Material
Paul Blum	Dickerson	209,937.00	5,998,200	222,156
Pual Blum	West Virginia	0.00	0	0
PPL	York Haven	147,987.00	4,228,200	156,600
Total		357,924.00	10,226,400	378,755.56

*Note: Poned Ash = 70 lbs/cu. Ft as measured by lehigh Lab

Table 3: Synthetic Gypsum

Gypsum Supplier	Supplier Location	Total Short Tons Delivered to Heidelberg Materials	Cubic Feet of Material*	Yards of Material
MERG	Mount Storm-WV	103,258.00	4,130,320	152,975
MERG	Dickerson, MD	22.00	880	33
RFI	Conemaugh	64,908.00	2,596,320	96,160
PB Company	Morgantown	0.00	0	0
PPL	Various Locals	0.00	0	0
Total		168,188.00	6,727,520	249,167.41

*Note: Synthetic Gypsum = 50 lbs/cu. Ft as measured by Heidelberg Lab



Attachment 1

Total short tons of CCBs used Year 2024 = 548,704.00

Total Yards of CCBs used Year 2024 = 20,322.4

Calculations

(Tons * 2000 lb/ton / lbs/cu ft) = cubic feet of material

Cubic Feet of material * (1 yard/ 3ft)³ = yards of material

Coal ash content is 26%

Year 2024 coal use = 227,286 tons

Coal Ash generated in kiln and consumed by clinker within the kiln = 59,094.00 tons